DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES

Office of Structural Materials Quality Assurance and Source Inspection

Bay Area Branch 690 Walnut Ave.St. 150 Vallejo, CA 94592-1133 (707) 649-5453 (707) 649-5493



Contract #: 04-0120F4

Cty: SF/ALA Rte: 80 PM: 13.2/13.9

69.28 File #:

WELDING INSPECTION REPORT

Resident Engineer: Pursell, Gary **Report No:** WIR-007338 Address: 333 Burma Road **Date Inspected:** 20-Jun-2009

City: Oakland, CA 94607

OSM Arrival Time: 645 **Project Name:** SAS Superstructure **OSM Departure Time:** 1845 **Prime Contractor:** American Bridge/Fluor Enterprises, a JV

Contractor: Zhenhua Port Machinery Company, Ltd (ZPMC), Changxing Island **Location:** Shanghai, China

CWI Name: CWI Present: Yes Huang Wen pang No **Inspected CWI report:** Yes N/A **Rod Oven in Use:** Yes No No N/A N/A **Electrode to specification:** Yes No Weld Procedures Followed: Yes No N/A N/A **Qualified Welders:** Yes No **Verified Joint Fit-up:** Yes No N/A N/A Yes N/A **Approved Drawings:** Yes No **Approved WPS:** No Yes No N/A **Delayed / Cancelled:**

Bridge No: 34-0006 **Component: OBG** Components

Summary of Items Observed:

On this date Caltrans OSM Quality Assurance (QA) Inspector, Sandeep Kumar was present during the times noted above for observations relative to the work being performed.

BAY 1

This QA Inspector observed the following work in progress:

SAW process welding of weld joint #002 located on Cross Beam CB201C - 007. Welder is identified as 207345. ZPMC QC is identified as Tian Lei. The welding variables recorded by QC appeared to comply with the WPS – B -T - 2221 - B - L2C - S - 2.

BAY 2

Ultrasonic Testing

This QA inspector performed UT of approximately 10% of the area previously tested and accepted by ZPMC Quality Control personnel. This QA Inspector generated an UT report for this date. The members are identified as OBG Components. The weld designations reviewed are as follows:

- 1. SSD19 PP091 137
- 2. FB003 171 034, 046
- 3. SSD17A PP087 131
- 4. FB003 169 008, 020

WELDING INSPECTION REPORT

(Continued Page 2 of 3)

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5. SSD19 - PP090 - 137
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$$8. FB003 - 176 - 034,046$$

BAY 3

Ultrasonic Testing

This QA inspector performed UT of approximately 10% of the area previously tested and accepted by ZPMC Quality Control personnel. This QA Inspector generated an UT report for this date. The members are identified as OBG Components. The weld designations reviewed are as follows:

This QA Inspector observed the following work in progress:

FCAW process welding of weld joint #097 located on CSD6 – PP84. Welder is identified as 204338. ZPMC QC is identified as Zhang Yaxu. The welding variables recorded by QC appeared to comply with the WPS – B – T – 2132 - 3.

FCAW process welding of weld joint #043 located on Floor Beam FB012 – 038. Welder is identified as 044824. ZPMC QC is identified as Yang Qing Feng. The welding variables recorded by QC appeared to comply with the WPS - B - T - 2232 - Tc - u4b - F.

FCAW process welding of weld joint #011 located on Floor Beam FB012 – 038. Welder is identified as 208035. ZPMC QC is identified as Yang Qing Feng. The welding variables recorded by QC appeared to comply with the WPS - B - T - 2132 - 3.

BAY 5

Ultrasonic Testing

This QA inspector performed UT of approximately 10% of the area previously tested and accepted by ZPMC Quality Control personnel. This QA Inspector generated an UT report for this date. The members are identified as OBG Components. The weld designations reviewed are as follows:

- 1. FB204 029 015; 012; 043; 034
- 2. FB204 030 006; 018; 040; 031
- 3. FB204 031 024; 012; 046; 025
- 4. FB204 032 006; 024; 043; 034
- 5. FB205 029 009; 019
- 6. FB205 030 006; 019
- 7. FB205 031 005; 013

WELDING INSPECTION REPORT

(Continued Page 3 of 3)

8. FB205 - 032 - 005; 022

BAY 7

Ultrasonic Testing

This QA inspector performed UT of approximately 10% of the area previously tested and accepted by ZPMC Quality Control personnel. This QA Inspector generated an UT report for this date. The members are identified as OBG Components. The weld designations reviewed are as follows:

- 1. BP3001 001 003; 004; 027; 031
- 2. BP3002 001 005; 006; 035; 039
- 3. BP3003 001 001; 002; 019; 023

This QA Inspector observed the following work in progress:

SMAW process welding of weld joint #018 located on SP3007 – 001. Welder is identified as 203204. ZPMC QC is identified as Zhong Dian Xing. The welding variables recorded by QC appeared to comply with the WPS – B – P - 2112.

BAY8

This QA Inspector observed the following work in progress:

SAW process welding of weld joint #004 located on Cross Beam CB201B- 012. Welder is identified as 207463. ZPMC QC is identified as Guo Yan Fei. The welding variables recorded by QC appeared to comply with the WPS -B-T-2221-B-L2C-S-2.

FCAW process welding of weld joint #024 located on Floor Beam FB204 – 034. Welder is identified as 066687. ZPMC QC is identified as Guo Yan Fei. The welding variables recorded by QC appeared to comply with the WPS -B-T-2232-Tc-u4b-F-1.

Unless otherwise noted, all work observed on this date appeared to generally comply with applicable contract documents.

Summary of Conversations:

No Relevant Conversations.

Comments

This report is for the purpose of determining conformance with the contract documents and is not for the purpose of making repair or fit for purpose recommendations. Should you require recommendations concerning repairs or remedial efforts please contact Eric Tsang - 15000422372, who represents the Office of Structural Materials for your project.

Inspected By:	Kumar,Sandeep	Quality Assurance Inspector
Reviewed By:	Prue,Erik	QA Reviewer